

Altimetry session summary (Tue: 14:45-15:50)

Background:

Spaceborne Laser altimeters
(Past, Present, Future)

**Clementine, MOLA, ICESAT,
MESSENGER, Calipso,
SELENE, LOL, Bepi-Colombo,
(DAWN)**

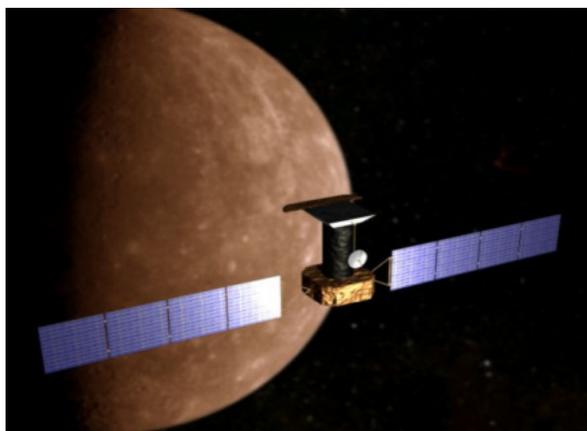
An essential tool for Planetary
exploration

Degnan et al.,

**Second-Generation Scanning, 3D
Imaging Lidars Based on Photon-
Counting.**

Second generation photon counting imaging lidars provide contiguous, high resolution, wide swath 3D topographic and polarimetric maps on a single overflight ... Many potential applications from volumetric biomass mapping, mapping through turbid water columns Planetary mapping. Cheap, low mass.

Michaelis et al., BELA, A Laser
Altimeter for Mercury.



**Launch: 2013,
Arrival: 2019,
Mapping: 2 yrs
400 x 1500 km
1m accuracy**

Jiruousek et al.

**Timing System for Planetary Laser
Altimeter Technology
Demonstrator.**

Burris et al., Lasercomm at sea.

125 Mbps Fast Ethernet ship-to-ship laser
communication data transmission - over 11 nautical
miles.